GIS FILE STRUCTURE IN BLM CALIFORNIA

by

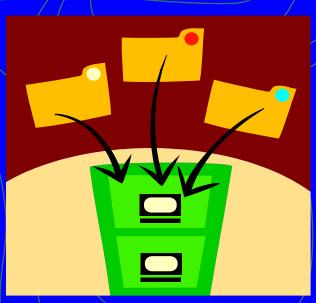
F. Kirk Halford

Bishop Field Office Archaeologist BLM CA and National Data Steward

March 21, 2007

A Simple Matter of

Organization



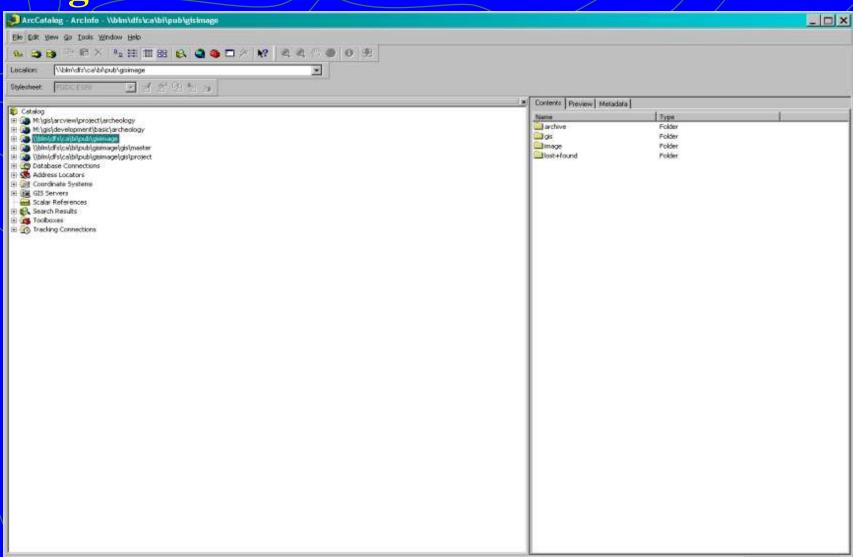
or

Not

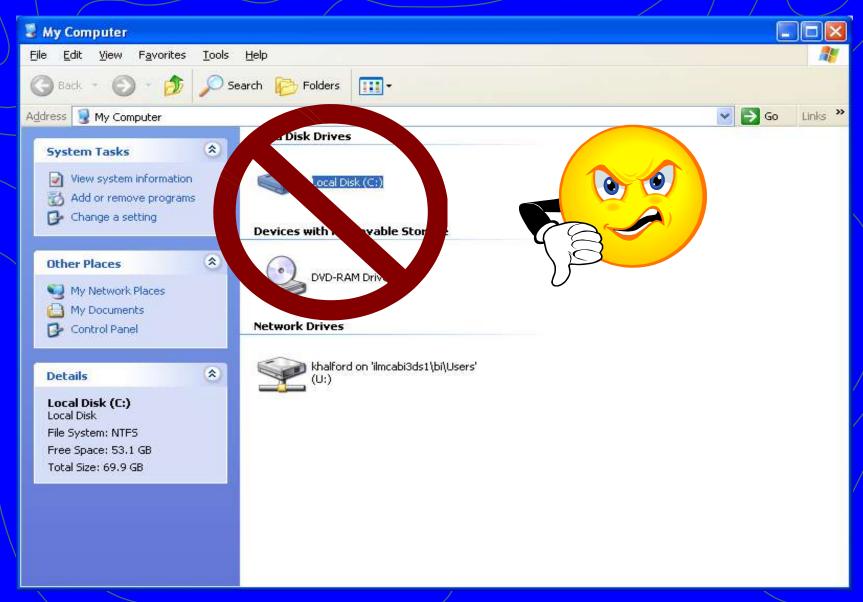


A Simple Matter of

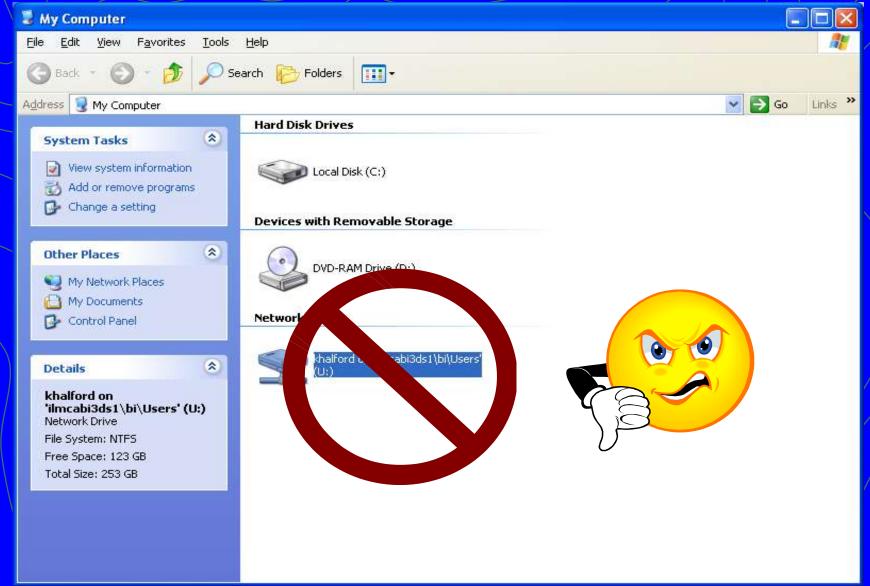
Organization



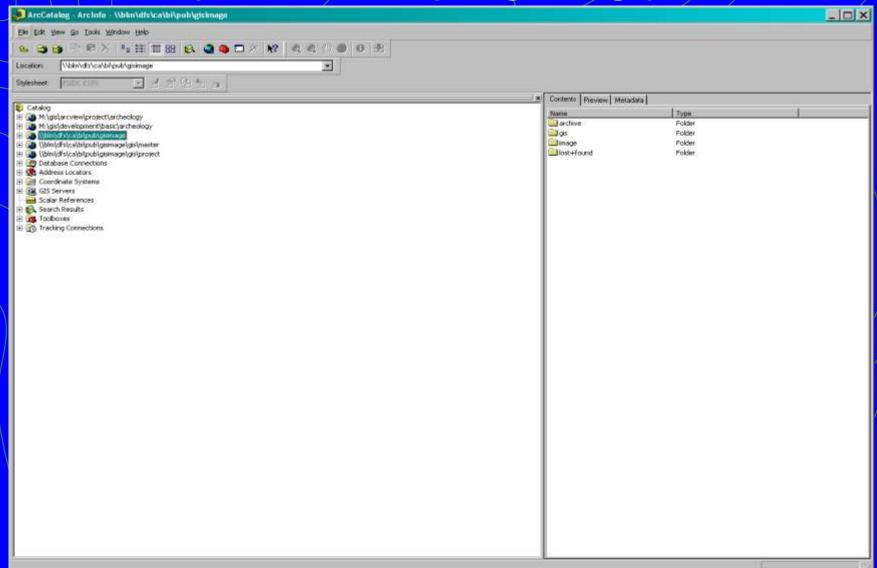
Do Not File GIS Data on Your C: Drive



Do Not File GIS Data on Your U: Drive



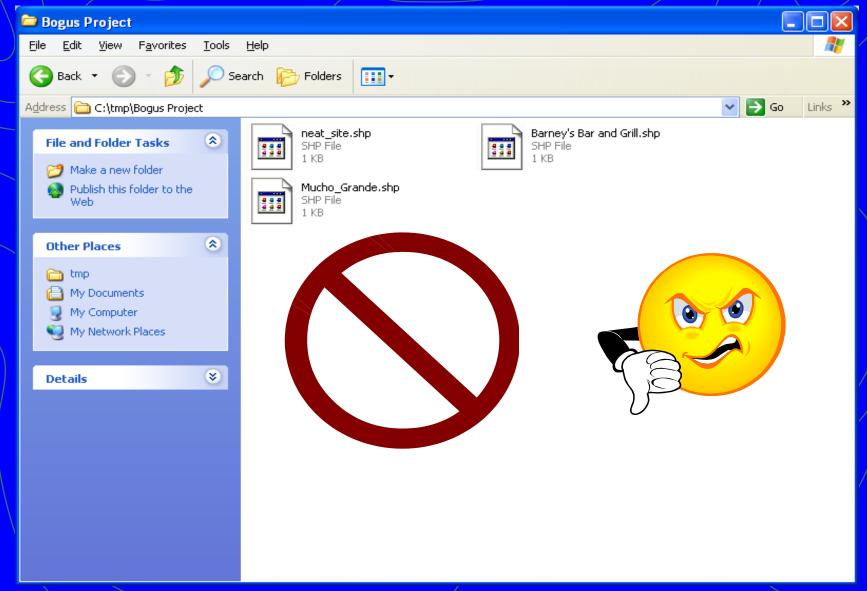
Organization Do Use the GIS Directory: M:\ (\\blm\\dfs\\ca\\bi\\pub\\gisimage)



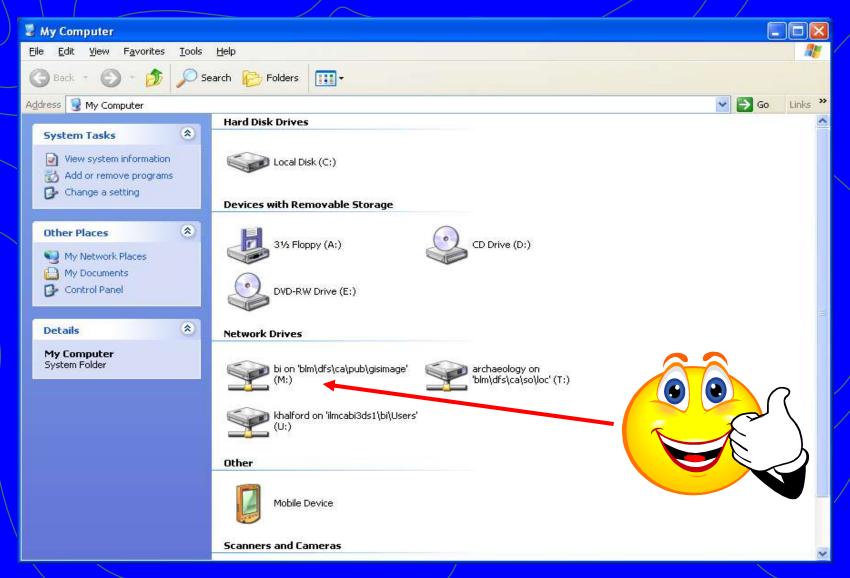
Do Not Use Abstract Directory or

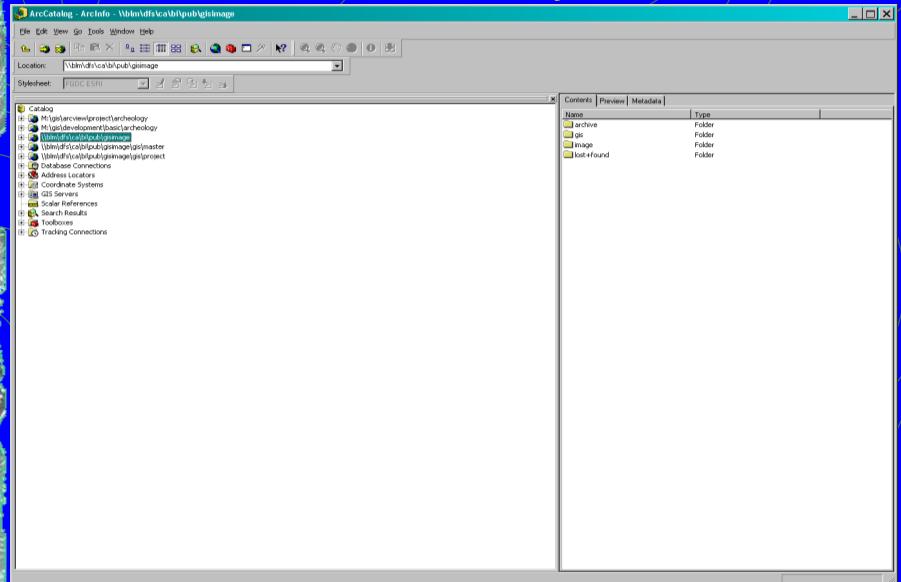


Or Not Do Not Use Abstract File Names



Organization Do Use the GIS Directory: (M: Drive)





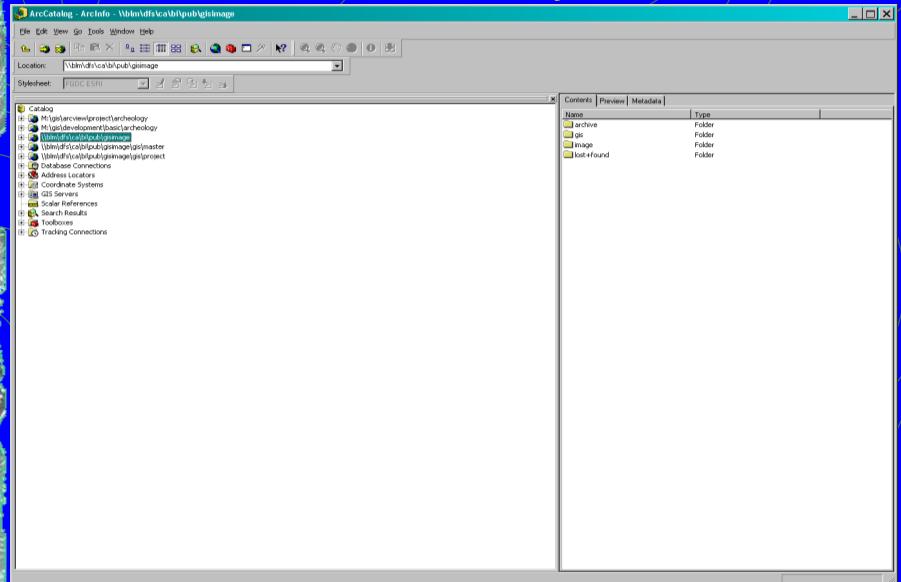
Benefits

- Spatial Data Naming Conventions
- Provides Interoffice Familiarity
- Improves User Accessibility
- Supports Robust Programming
- Promotes Data Security

The M:\ Drive (gisimage)
bi on blm\dfs\ca\pub\gisimage

GIS Equivalent of U:\ - GIS Home Two Primary Directory Trees

- M:\gis
 - Stores All Non-Image Spatial Data
- M:\image
 - DRGs, DOQs, and Satellite Imagery



Organization Do Use the GIS Directory & File Structure M:\gis\...

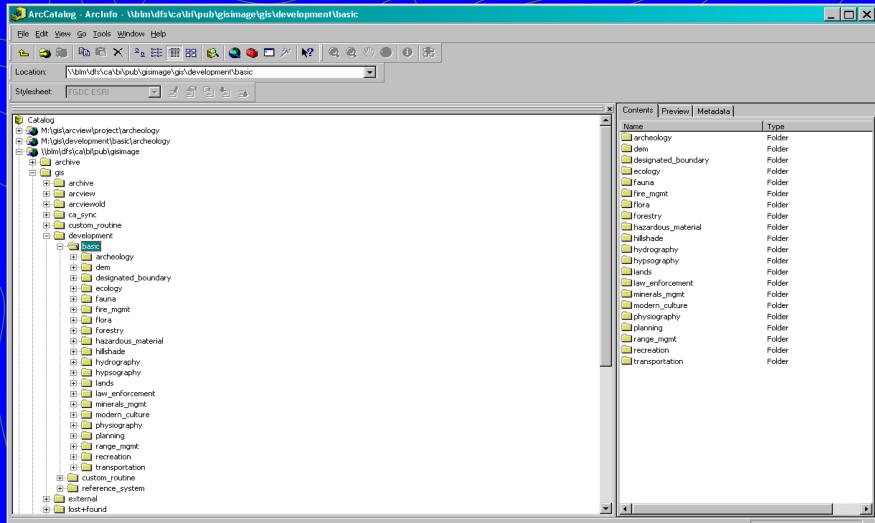
Stores All Non-Image Spatial Data Three Primary Data Storage Trees

- M:\gis\development\basic...
- M:\gis\project\...
- M:\gis\master\...

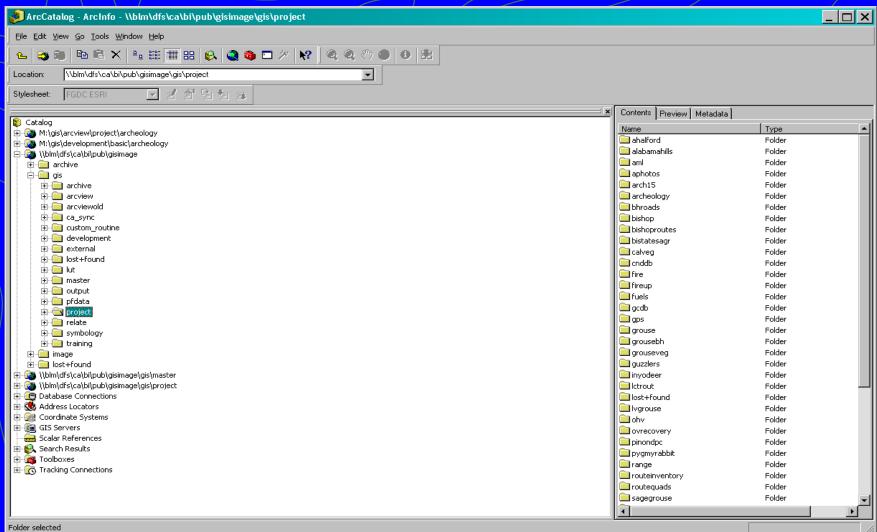
One Primary .mxd Storage Area

M:\gis\arcview\...

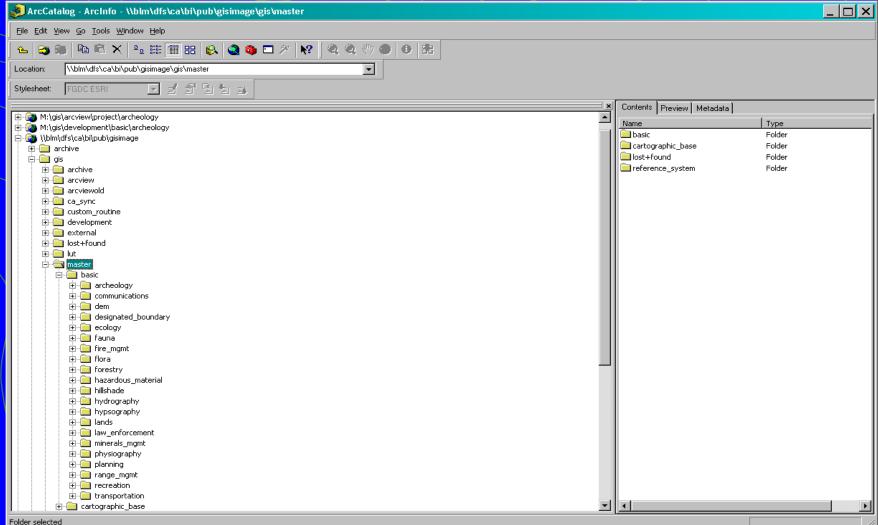
Organization Do Use the GIS Directory Structure M:\gis\development\basic\...



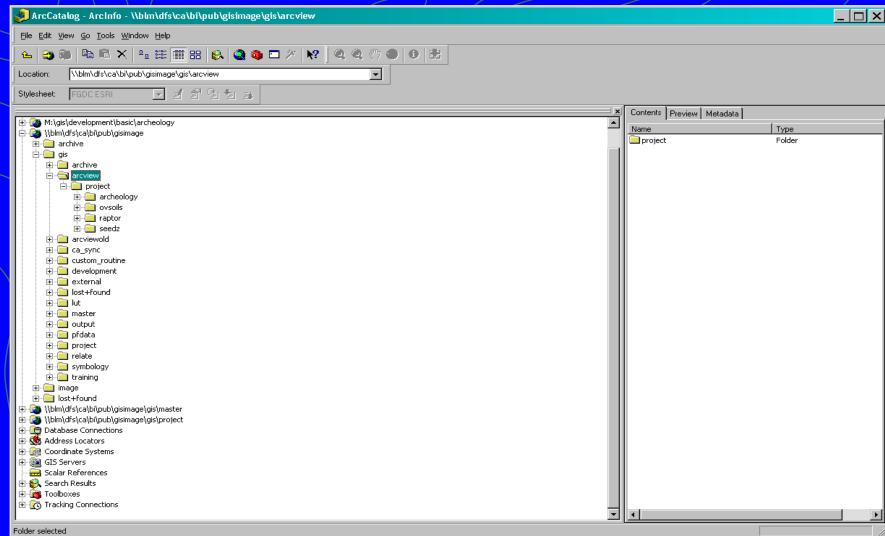
Organization Do Use the GIS Directory Structure M:\gis\project\...



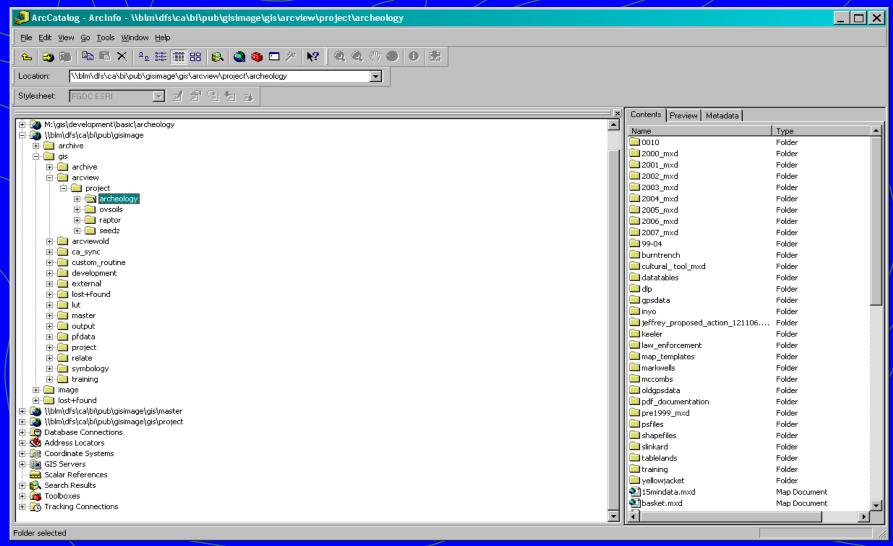
Organization Do Use the GIS Directory Structure M:\gis\master\...



Organization Do Use the GIS Directory Structure M:\gis\arcview\...



Organization Do Use the GIS Directory Structure M:\gis\arcview\project\archeology



Organization Do Use the GIS Theme & Feature Naming Conventions

Designed for the Coverage Data Model

Limited to Thirteen Characters

Concatenation of Three Code Strings

- Theme Code (First 3 Characters)
- Feature Type (Fourth Character)
- Spatial Extent (5th-13th Characters)

Flexible and Scaleable Supports Programming

Organization Do Use the GIS Theme Code Naming Convention

First 3 Characters Define Data Theme
Unique Code for Each Theme
Codes Exist for Many Themes
New Codes Added as Needs Arise
Examples

• ARCM, HYDLCA, WSAPBI, OWNPCA

Organization Do Use the GIS Theme Naming Conventions

BLM California GIS Theme Codes

Theme Code	theme	Category	Domain
WOOD .	Area of Critical Environmental Concern.	designated_boundary	besic
orld	sirfeld	transportation	Desio
12	agriculture	fora	besic
with the same of t	eromal habitel	feure	basic
ain	actimal transect	touria	tresic.
etx.	eirpholo index	photo_index	reference_kystem
with the same of t	unimal isostion	featin	besic
815	Arcinfo annotation	carlography	cartographic_base
ero	archeological site	archeology	Desic
at .	archeological feature	srcheology	Besic
arg.	animal range	feuro	basic
**	antheological isotate	archeology	Dases
85	archeological survey	archeology	District.
HID.	sweeterly district	designated_boundary	hasic
110	aspect state	physiography	Desic
blen	BLM	designated_boundary	thesec.
cod	CA veg date	form	Seeig-
cat	CA Department of Forestry Ranger Units census tracts	designated_boundary	besic
cen		designated_boundary	besit
cgs	congressional dis.	designated_boundary	Denic.
off	sity or town	designated_boundary	basic
cko	California knock out	cartography	cartographic_base
one	contour	hyprography	basic.
cru	saff ranger unit	tre_mgmt	basic
cat	const.	designated_boundary	basic
60	GCDB control	plas	reference_wystem
cty	county	designated_boundary	besic
dem	dem grid	digital slevation models	Sesio.

Friday, March 24, 2006

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Organization Do Use the GIS Feature Type Naming Convention

Fourth Character Defines Feature Type

- M Marker (Point Feature)
- L
 Line (Arc Feature)
- Polygon (Area Feature)
- G Grid (Grid Data)
- Image (Image Data)

Examples

ARCM, ARCL, HYDPCA, HYDLCA

Organization Do Use the GIS Spatial Extent Naming Conventions

Characters 5-13 Define Spatial Extent Least Cryptic Portion of the Name

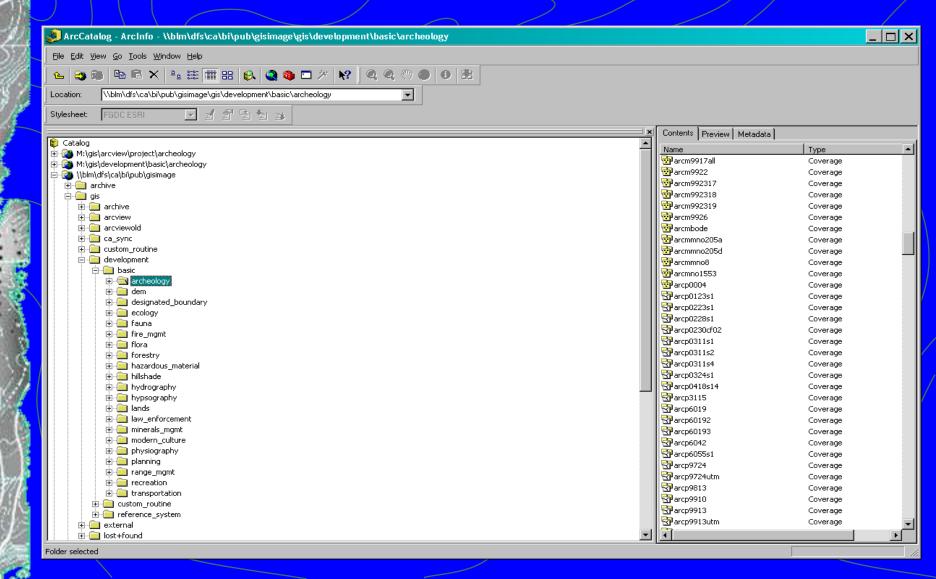
Addresses a Wide Range of Extents

 States, Field Offices, Project Areas, Quadrangles, Etc...

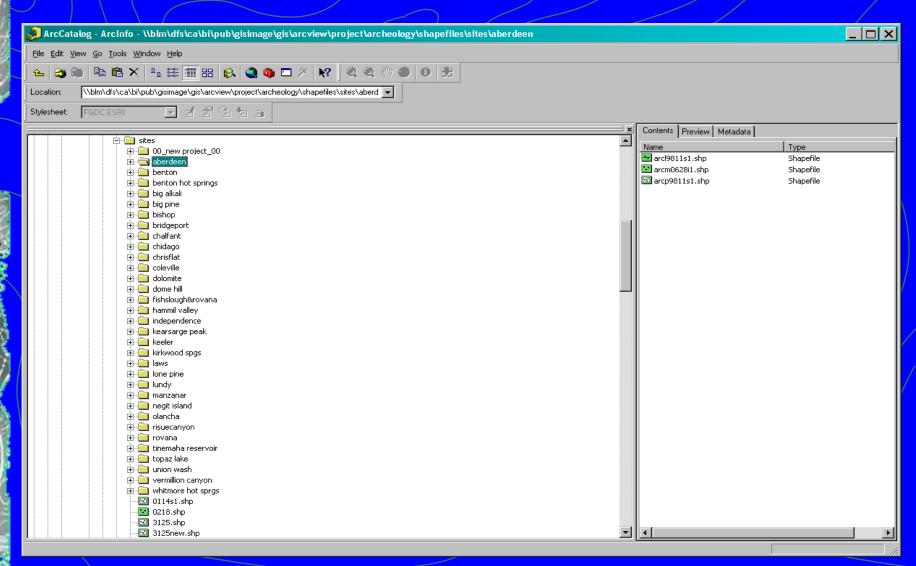
Examples

• ARCPCA, ARCMBODIE, ARSL38119H1
ARCM0701S1, ARCPMN03125

Organization Do Use the GIS Naming Conventions



Organization Do Use the GIS Naming Conventions for Resources



Organization Do Use the GIS Naming Conventions for Investigations

